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APPLICATION NO.	FILE	NG DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/717,817	10/717,817 11/20/2003		Xi Chu		9715
7	590	03/09/2005		EXAM	INER
Xi Chu 5273 Sunnyside Rd.				CHATTOPADHYAY, URMI	
Mounds View,		112		ART UNIT	PAPER NUMBER
			3738	3738	

DATE MAILED: 03/09/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

,	Application No.	Applicant(s)					
	10/717,817	CHU, XI					
Office Action Summary	Examiner	Art Unit					
	Urmi Chattopadhyay	3738					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply if NO period for reply is specified above, the maximum statutory period was reply received by the office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days fill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 20 No.	ovember 2003.	,					
2a) This action is FINAL . 2b) This	This action is FINAL . 2b) ☐ This action is non-final.						
	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4)⊠ Claim(s) <u>1-49</u> is/are pending in the application.							
•	4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are rejected.						
7) Claim(s) is/are objected to.	ologion requirement	·					
8)⊠ Claim(s) <u>1-49</u> are subject to restriction and/or €	riection requirement.						
Application Papers							
9) The specification is objected to by the Examine							
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the	- ' '						
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Ex							
Priority under 35 U.S.C. § 119							
12)☐ Acknowledgment is made of a claim for foreign	priority under 35 H.S.C. & 119(a)	-(d) or (f)					
a) ☐ All b) ☐ Some * c) ☐ None of: 1.☐ Certified copies of the priority documents		-(u) or (i).					
2. Certified copies of the priority documents		on No					
 Copies of the certified copies of the prior application from the International Bureau 		ed in this National Stage					
* See the attached detailed Office action for a list		d.					
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ite					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	6) Other:	atent Application (PTO-152)					

DETAILED ACTION

Election/Restrictions

Restriction to one of the following inventions is required under 35 U.S.C. 121:

- I. Claims 1-5, 7-9 and 11-40, drawn to a prosthetic valve, classified in class 623, subclass 2.42.
- II. Claims 6, 10 and 41, drawn to a method of fabricating a prosthetic valve, classified in class 623, subclass 901.
- III. Claim 42, drawn to a method of making a valve substrate, classified in class 264, subclass 29.2.
- IV. Claims 43-49, drawn to a method of coating a substrate with a nano-structurally engineered pyrolytic carbon, classified in class 427, subclass 249.1.

The inventions are distinct, each from the other because of the following reasons:

Inventions Group II and Group I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the product as claimed can be made by another and materially different process. The prosthetic valve does not have to be polished through abrasive flow; it can be chemically or electrochemically polished using a solution.

Inventions Group I, Group III and Group IV are unrelated, and inventions Group II, Group III and Group IV are unrelated. Inventions are unrelated if it can be shown that they are

not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP § 806.04, MPEP § 808.01). In the instant case the different inventions have different modes of operation, different functions, and different effects. The prosthetic valve is not disclosed as being used in the method of making a valve substrate or method of coating a substrate. Additionally the three methods are not disclosed as being performed together; they are unrelated methods.

Because these inventions are distinct for the reasons given above and the search required for each of the groups is not required for each of the rest of the groups, restriction for examination purposes as indicated is proper.

This application contains claims directed to patentably distinct species of the claimed invention.

If applicant elects Group I, applicant must also elect from the following species:

- a) Ball Prosthetic Valve
- b) Monoleaflet Prosthetic Valve
- c) Bileaflet Prosthetic Valve
- d) Trileaflet Prosthetic Valve

If applicant elects Group II, applicant must also elect from the following species:

- a) method of fabricating a ball prosthetic valve
- b) method of fabricating a monoleaflet prosthetic valve
- c) method of fabricating a bileaflet prosthetic valve
- d) method of fabricating a trileaflet prosthetic valve

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Applicant is required under 35 U.S.C. 121 to elect a single disclosed species [ex. Group I, Species (d) OR Group II, Species (b) OR Group III OR Group IV] for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable.

Currently, none of the claims are generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Urmi Chattopadhyay whose telephone number is (571) 272-4748. The examiner can normally be reached on Tuesday-Thursday 10:00am - 6:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Corrine McDermott can be reached on (571) 272-4754. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Úrmi Chattopadhyay

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